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## PATENT SPECIFICATION

Convention Date (United States): March 11, 1922.

**194,670**

Application Date (In United Kingdom): Feb. 7, 1923. No. 3658 / 23.

Complete Accepted: Oct. 18, 1923.

### COMPLETE SPECIFICATION.

#### Improvements in or relating to Cans or the like.

We, PASSAIC METAL WARE COMPANY, a corporation of the United States of America, of 217, Brook Avenue, Passaic, New Jersey, United States of America, Assignees of CHARLES GUERITEY, of 35, Howard Street, Passaic, County of Passaic, New Jersey, U.S.A., a citizen of the United States of America, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to improvements in containers having detachable covers, and has particular reference to containers commonly called "tin cans".

In connection with cover fastenings for containers, it has heretofore been proposed to roll over the edge of the can to provide stiffening means, this stiffening means being reinforced when the cover was placed in position, by an internal inclined flange around the cover, said cover being held in place by a bayonet joint or other form of inclined or screw connection. On glass bottles, moreover, there have been interrupted screw threads, the covers engaging with these by tabs with internal projections formed thereon.

The invention comprises a can or container having a body provided with a series of angularly disposed spaced threads adjacent to one end and a series of angularly disposed spaced threads on the inside of the cover, adapted to register with the first mentioned threads when the cover is placed in position and an annular groove around the top of the cover so disposed that it cooperates with the rolled up edge of the can when placed in position to seal and stiffen it.

Reference is to be had to the accom-

panying drawings, forming part hereof, wherein—

Figure 1 is a side view of the improved container body;

Figure 2 is a similar view of the cover;

Figure 3 is a plan view of the cover;

Figure 4 is an inverted plan view of the cover;

Figure 5 is a detail section of the parts assembled, and

Figure 6 is a fragmentary detail.

Similar numerals of reference indicate corresponding parts in the several views.

The numeral 1 indicates the body of the container, which may be generally of the usual rolled type customary in making tin cans, having a closed bottom 2 which may be applied by seaming the bottom and body together, or in any other suitable way. At 3 is the cover shown provided with a flange 4 to fit around the open end of the body. Adjacent to the open end of the body the same is shown provided with a bead 5 serving to stiffen the body. The outer edge of the body at the open end is shown rolled at 6 to provide a smooth edge or rim to cooperate with the cover. Adjacent to the open end the body is provided with angularly disposed spaced threads 7, which may be made by pressing the material of the body outwardly. The threads 7 each extend for a suitable distance around the body, and the end portions of adjacent threads overlap, or extend one beyond the other, providing spaces 8 therebetween, the mid-portions of the threads being exposed free from one another. The flange 4 of the cover is provided with spaced threads 9, which are shorter than the threads 7 and have substantially the same general angular position as the threads 7 when the body and cover are assembled. The threads 9

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may be made by pressing the metal of flange 4 inwardly.

The overlapping threads 7 provide a uniform periphery on the body, serving to stiffen the same adjacent to the open end. When the cover is applied on the body the threads 9 of the cover flange bear against the corresponding threads 7 at their mid-portions, between the ends of the adjacent threads which are correspondingly above and below the first named threads, and then the cover is rotated, as to the left in Figure 1, to cause its threads 9 to engage the end portions of the threads 7, as at 7<sup>a</sup>, whereby the cooperating threads 9 and 7 cause the cover to be fitted firmly against the open end or edge 6 of the body. The construction is such that when the cover engages the open end or edge of the body the threads 9 will be between adjacent overlapping ends of spaced threads 7, substantially as shown in Figure 6, whereby the cover will be snugly retained on the body and contact between the body end 6 and the cover will be maintained. When the cover is to be removed it will be rotated in a reverse direction and the threads 9 will slide along the corresponding lower threads 7, whereby the cover will be moved outwardly ready for convenient removal.

The top portion of the cover is shown provided with an annular indentation or groove 3<sup>a</sup> adjacent to the outer edge, but spaced suitably therefrom, in such position that the metal of such groove forms an interior annular projection, the outer side of which bears against the rolled edge or rim 6 of the body. Such pro-

jection serves not only to stiffen the cover but to afford an increased sealing surface along the open end of the body by contact of projection 3<sup>a</sup> with rim 6 additional to the contact of the main surface of the cover with the outer edge of the body. The inwardly disposed projection 3<sup>a</sup> of the cover by bearing against the open end of the body and within it braces such open end against inward pressure, thereby materially stiffening the body when the cover is in place and screwed tight on the body.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

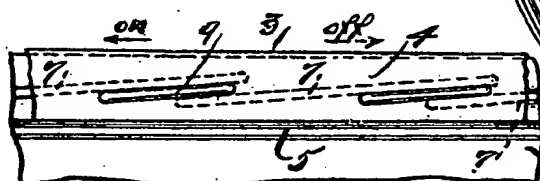
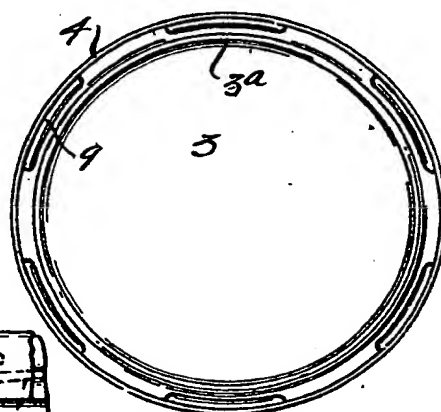
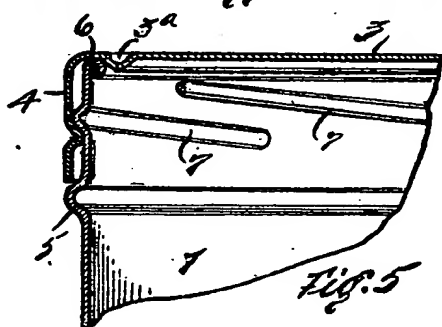
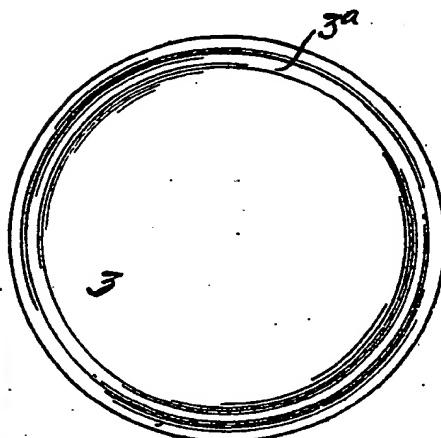
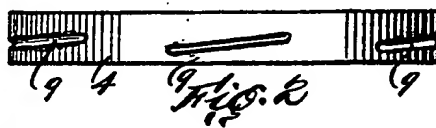
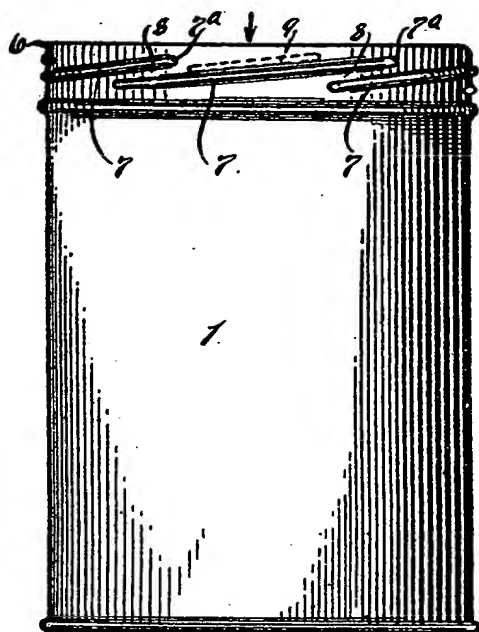
1. A can or container comprising a body provided with a series of angularly disposed spaced threads adjacent to one end and a series of angularly disposed spaced threads on the inside of the cover, adapted to register with the first mentioned threads when the cover is placed in position and an annular groove around the top of the cover so disposed that it cooperates with the rolled up edge of the can when placed in position, to seal and stiffen it.

2. The can or the like substantially as described or substantially as illustrated in the accompanying drawings.

Dated this 6th day of February, 1923.

PASSAIC METAL WARE COMPANY,  
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111 & 112, Hatton Garden, London,  
E.C. 1,  
Chartered Patent Agents.

[This Drawing is a reproduction of the Original on a reduced scale.]



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